

FIG. 1

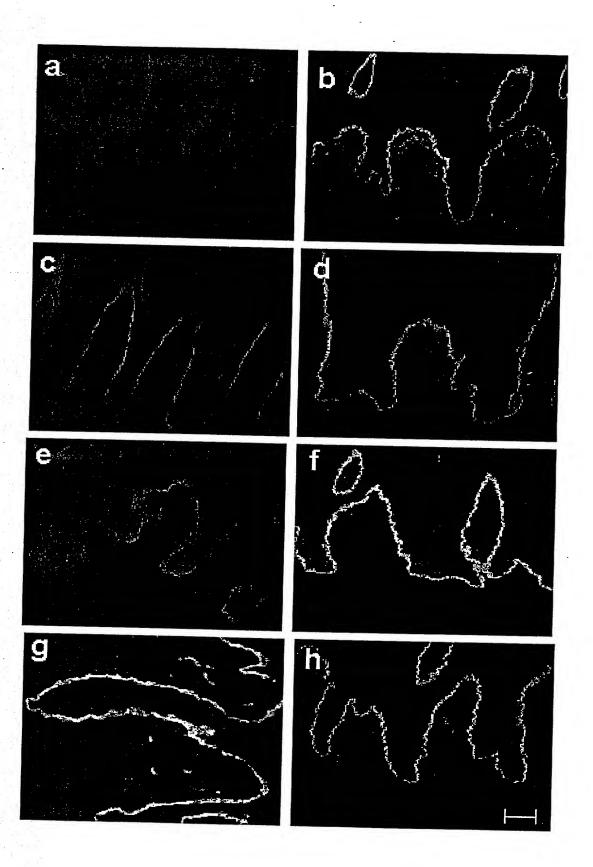


FIG. 2

-177

-91 MPALWLSCYLCFSLLLPAAARATSGREVCDC 30 NGKSRQCIFDQELHKQTGNGFRCLNCNDNT D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G 90 TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGGCTTC 360 S L S A R C D N S G R C S C K P G V T G D R C L P G F 120 CACACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450 H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150 GACTCAGGCCGCTGTGTCTGCAAGCCGGCTGTCACTGGAGAGCGCTGTGATAGGTGTCGACCAGGTTACTATCACCTGGATGGGGGAAAC 540 D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N 180 CCTCAGGGCTGTACCCAGTGTTTTTGCTATGGGCATTCCGCCAGCTGCCACAGCTCTGGGGACTACAGTGTCCATAAAATCATCTCTGCC 630 P Q G C T Q C F C Y G H S A S C H S S G D Y S V H K I I S A 210 dom. IV TTCEATCAAGATGTTGATGGCTGGAAGGCTGTCCAAAGAAACGGGTCTCCTGCAAAGCTCCAGTGGTCACAGCGCCCATCGGGATATATTT 720 FFQDVDGWKAVQR<mark>NGS</mark>PAKLQWSQRHRDIF 240 AGCTCAGCACGACGATCAGACCCTGTCTATTTTGTAGCTCCTGCCAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAAGCCTATCT 810 S ARRSDPVYFVAPAKFLGNQQVSYGQSLS 270 TTTGACTACCGTGTGGATAGGGGAGGCAGACACCCATCTGCCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900 Y R V D R G G R H P S A H D V I L E G A G L R I T A P L 300 ATGECACTTAGCAAGACACTGCCTTGTGGGATCACCAAGACTTACACATTCAGATTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG 990 M ELSKTLP C G I T K T Y T F R L N E H P S S N W S P Q 330 L STYFEYRRLLR NLT ALRIRATYGEYSTGYI 360 GACAACGTGACCTTGATTTCAGCCCGCCCCGTTTCTGGAGCCCCAGCGCCCTGGGTTGAACAATGTGTATGCCCTGTTGGCTACAAGGGG 1170 **EIVT** LISARPVSGAPAPWVEQCVCPVGYKG 390 Dom. III CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTCAGCCAGACTGGGACCTTTTTGGCACCTGTATTCCATGTAACTGCCAAGGG 1260 Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G GGAGGGCCTGCGATCCAGACACAGGAGACTGTTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCCATTGGTTTC 1350 G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450 TACAACGATCCACAAGACCCCCGCAGCTGCAAGCCGTGCCCCTGTCGCAATGGGTTCAGCTGCTCCGTGATGCCTGAGACAGAGGAGGTG 1440 Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480  ${\tt GTGTGCAATAACTGCCCCCAGGGTGTCACTGGTGCCCGCTGTGAGGCTCTGTGCTGATGGCTATTTTGGGGACCCCTTCGGGGAACGTGGC \ 1530$ V C N N C P Q G V T G A R C E L C A D G Y F G D P F G E R G 510 P V R P C Q P C Q C N N N V D P S A S G N C D R L T G R C L AAGTGCATCCACAACACGCTGGGGTCCACTGTGACCAGTGCAAAGCAGGCTACTATGGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710 K C I H N T A G V H C D Q C K A G Y Y G D P L A P N P A D K 570 TGTCGAGCTTGCAACTGCACCCAGTGGGCTCGGAGCCTGTGGAGTGTCGAAGTGATGGCAGCTGTGTTTGCAAGCCAGGCTTTGGTGGC 1800 C R A C N C N P V G S E P V E C R S D G S C V C K P G F G G 600

$\tt CTCAGCTGTGAGCATGCGGCACTGACCAGCTGTCCAGCTTGCTATAATCAAGTGAAGGTTCAGATGGATCAGTTTATGCAGCAGCAGCTGTCAGATGAAGGTTCAGATGGATCAGTTTATGCAGCAGCAGCTGTCAGATGAAGGTTCAGATGAAGGTTCAGATGAAGGATCAGTTTATGCAGCAGCAGCAGCAGCTGTCAGATGAAGGTTCAGATGAAGGTTCAGATGAAGGTTCAGATGAAGGTTCAGATGAAGGTTATGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG$	CTCCAG	1890
LSCEHAALTSCPACYNQVKVQMDQFMQQ	L Q	630
Dom. I/II ATCCTGGAGGCCCTGATTCGAAGGCTCAGGGTGGAGCAGTACCCAACGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980		
I L E A L I S K A Q G G A V P N A E L E G R M Q Q A E Q		660
$\tt CGGGACATTCTGAGAGAGCCCAGATTTCACAAGATGCTGTTAGATCCTTCAATCTCCGGGTGGCCAAGGCAAGGACTCAAGAGGCAAGGACTCAAGAGAGACTCAAGAGAGACTCAAGAGACAGAGGACTCAAGAGACAGGACTCAAGAGAGACTCAAGAGAGACTCAAGAGAAGAGACTCAAGAGAAGAGACTCAAGAGACAGAGAAGAGAAGAAGAAGAAGAAGAAGAAGAA$		
RDILREAQISQDAVRSFNLRVAKARTQE	n s	690
TACCGGGACCGCCTGGATGACCTCAAGATGACTGTGGAAAGAGTTCGGGCCCTGGGCAGTCAGT	'ACTCGC	2160
Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D		730
AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAGGCTTCCCTGCAAAACACCAACATTCCTCCTTCAGAGCACTAC		
RLITQMRLSLEESEASLQNTNIPPSEHY	V G	750
CCAAATGGCTTTAAAAGTCTGGCTCAGGAGGCCACGAGATTGGCAGACAGCCATGTTCAGTCAG		
P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L	A K	780
01330003000000000000000000000000000000		
GAAACCCAGGAGTATTCCAAAGAGCTGATGTCACTGGTGCGCGAGGCTCTGCAGGAAGGA		2430 810
	A V	810
$\tt GTGCAAAGGCTTGTGGGAAAATTGCAGAAAACTAAATCTCTGGCCCAGGAGTTGTCGAGGGAGG$	GCAGAT	2520
V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E	A D	840
<u>እርሮ ም</u> ሯም ጉልጥር እርር እም እርምርጥርር እርርምምርምር እስምምርርር ምርምርምር እር አምምር እርር ለአምር እስምር እስምር እምር እምር እምርርም ምርር እስም እር እስር ለር	יאאמאממ	2610
AGGRETTATCAGCATAGTCTCCACTTCTCAATTCCGTGTCTCAGATTCAGGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCCCR $\mathbb{R} \stackrel{\text{def}}{\longrightarrow} \mathbb{Y} \mathbb{Q} \mathbb{H} \mathbb{S} \mathbb{L} \mathbb{H} \mathbb{L} \mathbb{L} \mathbb{N} \mathbb{S} \mathbb{V} \mathbb{S} \mathbb{Q} \mathbb{I} \mathbb{Q} \mathbb{G} \mathbb{V} \mathbb{N} \mathbb{D} \mathbb{Q} \mathbb{S} \mathbb{L} \mathbb{Q} \mathbb{V} \mathbb{E} \mathbb{A}$		870
CTCAGACAAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAAGCAATCTGGGAAAC		
L R Q K A D S L S N R V T K H M D E F K H V Q S N L G N	W E	900
GAAGAAACCCGGCAGCTCTTACAGAATGGAAAGAATGGGAGACAGAC	AGCAGA	2790
E E T R Q L L Q N G K N G R Q T S D Q L L S R A N L A K		930
GCCCAGAGAAGCACTAAGTATGGGCAATGCCACTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGA $\mathbb{Q}$		
A Q L A L S M G M A 1 F 1 E V E N I L K N L K E F D L Q	V G	960
GATAAAAGAGCAGAAGCTGAAGAGGCCATGAAGAGACTCTCCTACATCAGCCAGAAGGTTGCAGGTGCCAGTGACAAGACGAAGCAAGC		
D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K	Q A	990
IU  GAAGTAGCCCTGGGCAGTGCTGCCGACGCCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060		
E A L G S A A A D A Q R A K N A A R E A L E I S G K I		1020
	_ v	1020
GAGĂŦĀGGAGGTCTGAACTTGGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGGACTGGCCACTCTGAAAAGT		3150
EIGGLNLEA <u>NVT</u> ADGALAMEKGLATLKS	E M	1050
AGAGAAGTGGAAGGAGAGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGCAGTGCAGATGGTAATTGCAGAGGCC	ירממממם	3240
REVEGELSRKEQEFDMDMDAVQMVIAEA		1080
GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACCTCAACACATTGGATGGCATCCTACACCTAATAGACCAG		
V E N R A K N A G V T I Q D T L N T L D G I L H L I D Q	P G	1110
AGTGTGGATGAAGAGAGGCTGATCTTACTGGAGCAGAAGCTTTTCCGAGCCAAGACTCAGATCAACAGCCAGC	SATGTCA	3420
S V D E E R L I L E Q K L F R A K T Q I N S Q L R P L		1140
GAGCTGGAAGAGAGGGCACATCGGCAGAAGGGCCACCTCCGTTTCCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAG		
E L E E R A H R Q K G H L R F L E T S I D G I L A D V K	и ь	1170
GAGAACATCAGGGACAACCTGCCCCCGGGCTGCTACAATACCCCAGGCTCTTGAGCAACAGtgaagctgccttagagatttctcaaccaag 360		
ENIRDNLPPGCYNTQALEQQ*		
gttcttgggattcagacctagctgccttagagatttctcaaccaaggttcttgggattcagacctcagggctcaggagccgca		
tggggtgggatgggaatatttgaatatgttgaatgcgtgtgctcaggccccagtgaacctgatcccatccctgagacctcggccatgtctttattg	agataa	3780 3789-3'

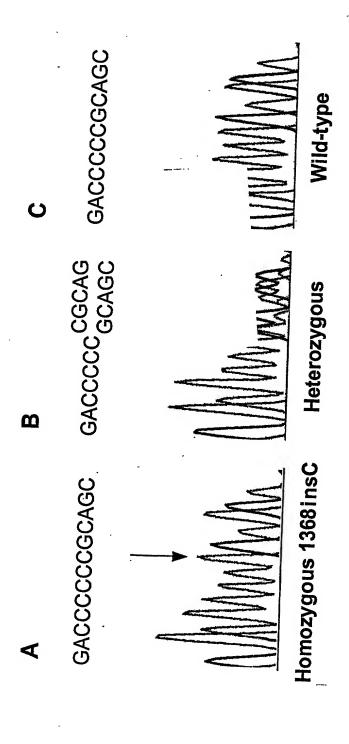


FIG. 5

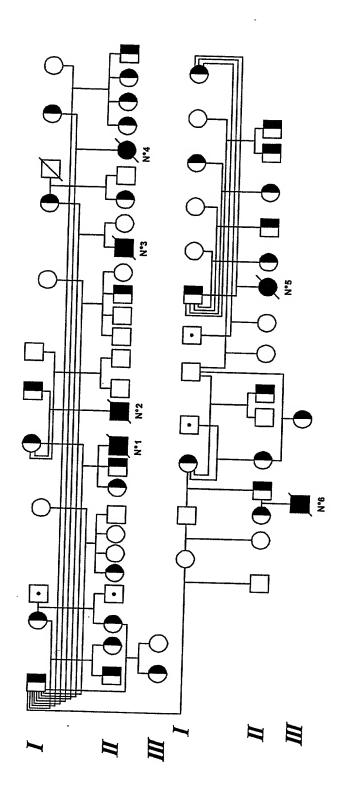


FIG. 6